

EBP50 Rabbit mAb

Catalog No: #49311



Package Size: #49311-1 50ul #49311-2 100ul

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Support: tech@signalwayantibody.com

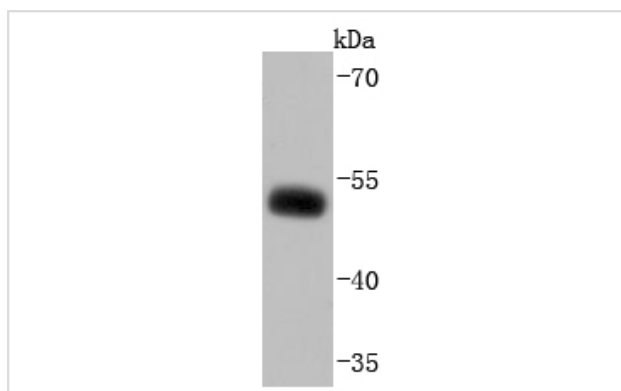
Description

Product Name	EBP50 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JJ0946
Purification	ProA affinity purified
Applications	WB, IHC
Species Reactivity	Hu, Rt
Immunogen Description	recombinant protein
Other Names	EBP 50 antibody EBP50 antibody Ezrin radixin moesin binding phosphoprotein 50 antibody Ezrin-radixin-moesin-binding phosphoprotein 50 antibody Na(+)/H(+) exchange regulatory cofactor NHE RF antibody Na(+)/H(+) exchange regulatory cofactor NHE-RF1 antibody Na+/H+ exchange regulatory co factor antibody NHERF 1 antibody NHERF antibody NHERF-1 antibody NHERF1 antibody NHRF1_HUMAN antibody NPHLOP2 antibody Regulatory cofactor of Na(+)/H(+) exchanger antibody Slc9a3r1 antibody Sodium hydrogen exchanger regulatory factor 1 antibody Sodium-hydrogen exchanger regulatory factor 1 antibody Sodium/hydrogen exchanger regulatory factor 1 antibody Solute carrier family 9 (sodium/hydrogen exchanger) member 3 regulator 1 antibody Solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulatory factor 1 antibody Solute carrier family 9 isoform 3 regulatory factor 1 antibody Solute carrier family 9 isoform A3 regulatory factor 1 antibody Solute carrier family 9 member 3 regulator 1 antibody
Accession No.	Swiss-Prot#:O14745
Calculated MW	50 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

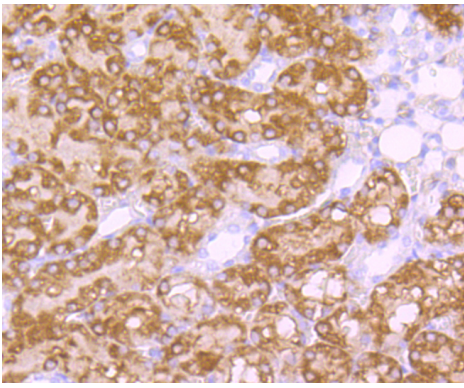
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200

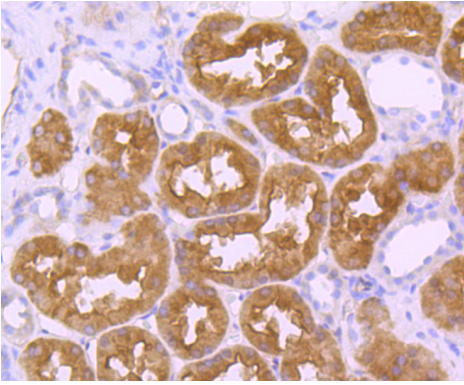
Images



Western blot analysis of EBP50 on MCF-7 cells lysates using anti-EBP50 antibody at 1/1,000 dilution.



Immunohistochemical analysis of paraffin-embedded rat kidney tissue using anti-EBP50 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-EBP50 antibody. Counter stained with hematoxylin.

Background

The Na⁺/H⁺ exchange protein (NHE3) functions in transepithelial Na⁺ absorption and is primarily expressed in the intestinal and renal brush border membrane. NHE3 regulatory factor 1 (NHERF-1) interacts with NHE3 through two PDZ (for PSD-95, Discs-large and ZO-1 homology) domains, which are protein-protein interaction modules that associate with specific carboxy-terminal motifs on target proteins. Also known as EBP50, NHERF-1 facilitates cAMP inhibition of NHE3 to decrease Na⁺ adsorption. NHERF-1 functions as a scaffold for an essential multiprotein complex of Ezrin and NHE3 for cAMP-mediated phosphorylation and consequent inhibition of NHE3. The amino-terminal PDZ domain regulates the dimerization of NHERF-1 in vivo. G protein-coupled receptor kinase 6A phosphorylates NHERF-1 at Ser 289 via a PDZ domain-mediated interaction. NHERF-2, also known as E3KARP, is a ubiquitously expressed protein which also functions in NHE2 regulation.

References

1. Sneddon WB et al. Convergent Signaling Pathways Regulate Parathyroid Hormone and Fibroblast Growth Factor-23 Action on NPT2A-mediated Phosphate Transport. *J Biol Chem* 291:18632-42 (2016).
2. Dudakovic A et al. Histone deacetylase inhibition destabilizes the multi-potent state of uncommitted adipose-derived mesenchymal stromal cells. *J Cell Physiol* 230:52-62 (2015).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.